

1                   **ABSTRACT**

2                 A toilet and urinal leak detection and warning system and method which detects  
3                 water flow for a period of time outside a predetermined window. The invention includes  
4                 a water flow detector, a timer and an audible alarm sound generator.

5                 A flow of water past the water flow detector triggers the timer and in the event  
6                 that the water is still running after a predetermined amount of time, a control signal is  
7                 sent to the audible alarm generator and alarm will sound. The invention further  
8                 includes reset logic to allow for either an automatic, or manual, reset of the alarm that  
9                 will terminate the alarm state and return the device to a detection mode. The invention  
10                 also may be configured to measure and react to relatively short flows of water signifying  
11                 a slow loss of water not related to normal flushing activity.